

## **Monthly Wholesale Trade**

**Sales and Inventories** 

U.S. Department of Commerce Economics and Statistics Administration BUREAU OF THE CENSUS May 1997 BW/97-5 Issued July 1997

Sales. May 1997 sales of merchant wholesalers, after adjustment for seasonal variation and trading-day differences but not for price changes, were \$210.4 billion, up 0.2 percent (+/-1.0%) from the revised April level and 5.1 percent (+/-1.7%) above May 1996. The April preliminary estimate was revised downward by \$0.3 billion or 0.1 percent. Among durable goods, sales of furniture and home furnishings were down 3.3 percent to \$3.4 billion from last month, while metals and minerals, except petroleum, were down 2.2 percent to \$8.5 billion. Sales of nondurable goods were up 1.0 percent (+/-1.2%) from April and were 5.9 percent (+/-2.3%) higher than May 1996. Compared to last month, sales of beer, wine, and distilled alcoholic beverages were up 4.2 percent to \$4.8 billion and drugs, drug proprietaries and druggists' sundries rose 3.1 percent to \$9.9 billion.

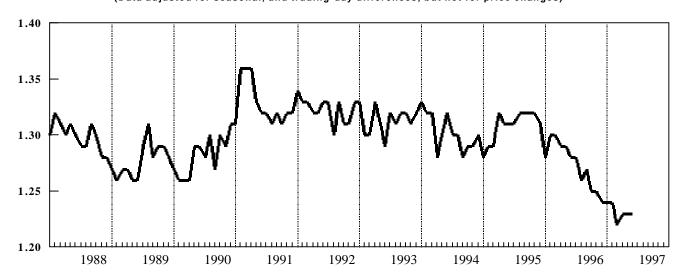
**Inventories.** Total inventories of merchant wholesalers, after adjustment for seasonal variation but not for price changes, were \$258.7 billion at the end of May, up 0.2 percent

(+/-0.7%) from the revised April level and 0.8 percent (+/-2.2%) above May 1996. The April preliminary estimate was revised upward by \$0.4 billion or 0.2 percent. Among durable goods, inventories of lumber and other construction materials were up 1.8 percent from last month to \$8.1 billion, while machinery, equipment and supplies increased 1.6 percent to \$37.6 billion. Among nondurable goods, inventories of farm-product raw materials declined 6.1 percent to \$8.8 billion and beer, wine, and distilled alcoholic beverages fell 4.2 percent to \$4.7 billion.

**Inventories/Sales Ratio.** The May inventories/sales ratio for merchant wholesalers, based on seasonally adjusted data, was 1.23. The May 1996 ratio was 1.28.

Data in this report are based on a sample and, therefore, are subject to sampling and nonsampling variability. A discussion of the reliability of the data and general survey methodology appears in BW/96-RV Current Business Report.

## Monthly Inventories/Sales Ratios of Merchant Wholesalers: 1988 to 1997 (Data adjusted for seasonal, and trading-day differences, but not for price changes)



Monthly Wholesale Trade for June is scheduled to be released August 7, 1997 at 10:00 a.m.

Address inquiries concerning this report to Services Division, Bureau of the Census, Washington, DC 20233, or call Ronald Piencykoski, (301) 457-2779 or 457-2764. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

This report is available on day of issue through the Department of Commerce's online Economic Bulletin Board (202-482-1986). The data are also available on the internet - http://www.census.gov/svsd/www/mwts.html.

Table 1. Estimated Monthly Sales, Inventories, and Inventories/Sales Ratios of Merchant Wholesalers: 1997 and 1996

[In millions of dollars]

Monthly		ons of dollars]	Sales						Inventories							Inventories/Sales		
Post			Monthly			Percent change			Monthly			Percent change			ratios			
Machinery   Conditional   Co	SIC1	Kind of	May	Apr.	May	May/	Apr./	May 97	May	Apr.	May	May/	Apr./	May 97	May	Apr.	May	
Nondurable	code	business				Apr.	Mar.	May 96				Apr.	Mar.	May 96				
U.S. Total   210,354   209,926   200,079   0.2   -0.1   5.1   258,660   258,046   256,740   0.2   -0.5   0.8   1.23   1.23			(p)	(r)	(r)				(p)	(r)	(r)				(p)	(r)	(r)	
Durable   108,173   108,748   103,580   -0.8   1.4   4.4   155,243   154,448   150,021   0.5   0.2   2.7   1.53   1.51	A djus	ted <sup>2</sup>																
Automotive   18,117   17,942   17,136   1.0   -1.8   5.7   26,847   26,422   27,164   1.6   -2.4   -1.2   1.48   1.47		U.S. Total	210,354	209,926	200,079	0.2	-0.1	5.1	258,680	258,046	256,740	0.2	-0.5	0.8	1.23	1.23	1.28	
Furniture   3,439   3,557   3,674   -3,3   -1,1   -8,4   5,227   5,212   -5,168   -0,3   5,4   1,2   1,52   1,47	50	Durable	108,173	108,748	103,580	-0.5	1.4	4.4	165,243	164,448	160,921	0.5	0.2	2.7	1.53	1.51	1.55	
500   Furniture   3,439   3,557   3,674   -3.3   -1.1   -8.4   5,227   5,212   5,163   0.3   5.4   1.2   1,52   1.47	501	Automotive	18,117	17,942	17,136	1.0	-1.8	5.7	26,847	26,422	27,164	1.6	-2.4	-1.2	1.48	1.47	1.59	
Prof. equip.   20,866   21,090   19,481   -1.1   2.4   7.1   22,701   22,705   22,270   0.0   0.2   2.1   1.9   1.09   1.08     Metalls	502	Furniture	3,439			-3.3	-1.1	-6.4	5,227	5,212	5,163	0.3	5.4	1.2	1.52	1.47	1.41	
Metals	503	Lumper	7,374	7,555	7,114	-2.4	3.3	3.7	8,141	8,000	7,519	1.8	3.3	8.3	1.10	1.06	1.06	
belectrical   14,956   14,754   14,266   1.4   0.1   4.8   23,761   23,622   24,140   0.6   -1.5   -1.6   1.59   1.69	504	Prof. equip.	20,866	21,090	19,481	-1.1	2.4	7.1	22,701	22,705	22,270	0.0	2.2	1.9	1.09	1.08	1.14	
Description   Hardware   6,451   6,444   5,759   0.1   3.5   12.0   12,354   12.400   11,405   -0.4   3.5   8.3   1.92   1.92			8,538	8,728	8,327	-2.2	3.7	2.5	13,616	13,535	12,354	0.6	1.2	10.2	1.59	1.55	1.48	
Machinery   15,990   16,034   15,582   -0.3   -0.0   2.6   37,551   36,948   35,186   1.6   -1.3   6.7   2.35   2.30								- 1			, -			1			1.69	
Durg												-					1	
Nondurable   102,181   101,178   96,499   1.0   -1.8   5.9   93,437   93,598   95,819   -0.2   -1.8   -2.5   0.91   0.93					,			1									1	
Paper																		
Drugs   9,913   9,618   8,382   3.1   0.1   18.3   14,028   13,804   12,414   1.6   -2.7   13.0   1.42   1.44     Drugs   7,443   7,526   6,206   -1.1   3.3   19.9   12,365   12,297   12,012   0.6   1.1   2.9   1.66   1.63     Drugs   27,615   27,386   25,951   0.8   -2.5   6.4   17,503   17,306   17,632   1.1   -2.1   -0.7   0.63   0.63     Drugs   9,600   9,715   10,134   -0.6   4.9   -4.7   8,765   9,366   12,918   -6.1   -0.6   -32.1   0.91   0.96     Drugs   4,518   4,570   4,495   -1.1   0.9   0.5   4,596   4,670   4,499   -1.6   -1.4   2.2   1.02   1.02     Dretroleum   14,491   14,460   14,510   0.2   -8.7   -0.1   5,226   5,177   4,913   0.9   -1.7   -4.8   0.97   1.06     Drugs   Not Adjusted   U.S. Total   18,367   15,788   15,259   3.7   -2.1   7.3   17,243   17,367   18,140   -0.7   -3.9   -4.9   1.05   1.10     Drugs   Drugs   108,618   105,911   -0.1   -0.9   2.5   166,643   165,786   162,273   0.5   1.1   2.7   523,421     Drugs   Drugs   Drugs   18,821   18,078   0.8   -2.8   -3.8   4.9   27,303   26,950   27,599   1.3   -1.7   -1.1   90,130     Drugs   Drugs   Drugs   18,821   19,052   -0.1   -0.5   5.7   2.2   2.3   2.8   2.8   7,684   1.4	51	Nondurable	102,181	101,178	96,499	1.0	-1.8	5.9	93,437	93,598	95,819	-0.2	-1.8	-2.5	0.91	0.93	0.99	
STATE   STA	511	1 '	7,358	7,491	6,823	-1.8	0.7	7.8	9,032	8,758	8,376	3.1	-1.0	7.8	1.23	1.17	1.23	
Single   Figure   Single			9,913		8,382	3.1		18.3	14,028	13,804	12,414	1.6	-2.7		1.42	1.44	1.48	
Disagraphic   Signature   S		1 ''															1.94	
Signature   Sig								1	,								1	
Petroleum								1									1	
Not Adjusted																	1	
Not Adjusted  U.S. Total 213,365 211,000 207,431 1.1 -1.0 2.9 257,826 260,244 255,346 -0.9 -0.1 1.0 1,030,078  Durable 108,539 108,618 105,911 -0.1 -0.9 2.5 166,643 165,786 162,273 0.5 1.1 2.7 523,421  501 Automotive 18,969 18,821 18,078 0.8 -2.8 4.9 27,303 26,950 27,599 1.3 -1.7 -1.1 90,130 502 Furniture 3,480 3,582 3,814 -2.8 0.3 -8.8 5,264 5,113 5,204 3.0 3.6 1.2 17,315 3,264  504 Prof. equip. 20,136 20,162 19,052 -0.1 -6.0 5,7 22,474 22,841 22,070 -1.6 2.9 1.8 100,004 505 Metals 8,820 9,199 8,835 -4.1 6,65 -0.2 13,589 13,630 12,239 -0.3 1.0 10.2 43,422 508 Machinery 16,598 Machinery 16,598 16,675 16,408 -0.5 2.2 1.2 38,077 37,576 35,679 1.3 22,2 47 21,110 22,2 257,826 260,244 255,346 -0.9 -0.1 1.0 1,030,078 1.1 2,7 523,421 1.1 90,130 1.1 90,130 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.					,			-									0.34 1.04	
Not Adjusted   U.S. Total   213,365   211,000   207,431   1.1   -1.0   2.9   257,826   260,244   255,346   -0.9   -0.1   1.0   1,030,078								1									1.19	
U.S. Total		I	10,001		10,200				,2.0	,00.	10,110	0	0.0					
U.S. Total   213,365   211,000   207,431   1.1   -1.0   2.9   257,826   260,244   255,346   -0.9   -0.1   1.0   1,030,078	1101 7																1996	
5U         Durable         108,539         108,618         105,911         -0.1         -0.9         2.5         166,643         165,786         162,273         0.5         1.1         2.7         523,421           5U1         Automotive         18,969         18,821         18,078         0.8         -2.8         4.9         27,303         26,950         27,599         1.3         -1.7         -1.1         90,130           5U2         Furniture         3,480         3,582         3,814         -2.8         0.3         -8.8         5,264         5,113         5,204         3.0         3.6         1.2         17,315           5U3         Lumber         7,802         7,751         7,719         0.7         10.1         1.1         8,320         8,208         7,684         1.4         1.4         8.3         35,264           5U4         Prof. equip.         20,136         20,162         19,052         -0.1         -6.0         5.7         22,474         22,841         22,070         -1.6         2.9         1.8         100,004           5U5         belectrical         14,477         14,208         14,123         1.9         -5.2         2.5         23,880         24,		U.S. Total	213 365	211 000	207 431	1 1	-1 0	2 9	257 826	260 244	255 346	-0.9	-0.1	1.0			982,067	
5U1         A utomotive         18,969         18,821         18,078         0.8         -2.8         4.9         27,303         26,950         27,599         1.3         -1.7         -1.1         90,130           5U2         Furniture         3,480         3,582         3,814         -2.8         0.3         -8.8         5,264         5,113         5,204         3.0         3.6         1.2         17,315           5U3         Lumber         7,802         7,751         7,719         0.7         10.1         1.1         8,320         8,208         7,684         1.4         1.4         8.3         35,264           5U4         Prof. equip.         20,136         20,162         19,052         -0.1         -6.0         5.7         22,474         22,841         22,070         -1.6         2.9         1.8         100,004           505         M etals         8,820         9,199         8,835         -4.1         6.5         -0.2         13,589         13,630         12,329         -0.3         1.0         10.2         43,422           504         Hardware         6,425         6,373         5,874         0.8         9.8         9.4         12,601         12,524	50		.,		· ·						·						503,604	
Furniture 3,480 3,582 3,814 -2.8 0.3 -8.8 5,264 5,113 5,204 3.0 3.6 1.2 17,315 5 1 1,4 5 1,4 5 1 1,4 5 1,4 5 1 1,4 5 1,4 5 1 1,4 5 1,4			· '								·				•		88,281	
5U3         Lumber         7,802         7,751         7,719         0.7         10.1         1.1         8,320         8,208         7,684         1.4         1.4         8.3         35,264           5U4         Prof. equip.         20,136         20,162         19,052         -0.1         -6.0         5.7         22,474         22,841         22,070         -1.6         2.9         1.8         100,004           505         Metals         8,820         9,199         8,835         -4.1         6.5         -0.2         13,589         13,630         12,329         -0.3         1.0         10.2         43,422           500         Electrical         14,477         14,208         14,123         1.9         -5.2         2.5         23,880         23,480         24,261         1.7         0.3         -1.6         70,561           507         Hardware         6,425         6,373         5,874         0.8         9.8         9.4         12,601         12,524         11,633         0.6         3.5         8.3         29,446           508         Machinery         16,598         16,675         16,408         -0.5         2.2         1.2         38,077         37,576					,									l .	,	- 1	17,235	
5U4         Prof. equip.         20,136         20,162         19,052         -0.1         -6.0         5.7         22,474         22,841         22,070         -1.6         2.9         1.8         100,004           505         Metals         8,820         9,199         8,835         -4.1         6.5         -0.2         13,589         13,630         12,329         -0.3         1.0         10.2         43,422           5Ub         Electrical         14,477         14,208         14,123         1.9         -5.2         2.5         23,880         23,480         24,261         1.7         0.3         -1.6         70,561           5U7         Hardware         6,425         6,373         5,874         0.8         9.8         9.4         12,601         12,524         11,633         0.6         3.5         8.3         29,446           508         Machinery         16,598         16,675         16,408         -0.5         2.2         1.2         38,077         37,576         35,679         1.3         2.2         6.7         79,076           509         Utner Durable         11,832         11,847         12,008         -0.1         -4.7         -1.5         15,135 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>32,998</td></td<>																	32,998	
505         Metals         8,820         9,199         8,835         -4.1         6.5         -0.2         13,589         13,630         12,329         -0.3         1.0         10.2         43,422           50b         Electrical         14,477         14,208         14,123         1.9         -5.2         2.5         23,880         23,480         24,261         1.7         0.3         -1.6         70,561           50b         Hardware         6,425         6,373         5,874         0.8         9.8         9.4         12,601         12,524         11,633         0.6         3.5         8.3         29,446           508         Machinery         16,598         16,675         16,408         -0.5         2.2         1.2         38,077         37,576         35,679         1.3         2.2         6.7         79,076           509         Uniner Durable         11,832         11,847         12,008         -0.1         -4.7         -1.5         15,135         15,464         15,814         -2.1         -1.2         -4.3         58,203           511         Paper         7,145         7,431         6,837         -3.8         0.9         4.5         8,951         8,907 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>,</td> <td></td> <td></td> <td> </td> <td></td> <td></td> <td>,</td> <td>- 1</td> <td>90,760</td>								1	,						,	- 1	90,760	
5U7         Hardware         6,425         6,373         5,874         0.8         9.8         9.4         12,601         12,524         11,633         0.6         3.5         8.3         29,446           508         Machinery         16,598         16,675         16,408         -0.5         2.2         1.2         38,077         37,576         35,679         1.3         2.2         6.7         79,076           5U9         Utner Durable         11,832         11,847         12,008         -0.1         -4.7         -1.5         15,135         15,464         15,814         -2.1         -1.2         -4.3         58,203           51         Nondurable         104,826         102,382         101,520         2.4         -1.1         3.3         91,183         94,458         93,073         -3.5         -2.0         -2.0         506,657           511         Paper         7,145         7,431         6,837         -3.8         0.9         4.5         8,951         8,907         8,284         0.5         0.2         8.1         36,516           512         Drugs         9,576         9,801         8,441         -2.3         4.1         13.4         13,327         13,804 <td>505</td> <td></td> <td></td> <td></td> <td></td> <td>-4.1</td> <td>6.5</td> <td>-0.2</td> <td></td> <td></td> <td></td> <td>-0.3</td> <td>1.0</td> <td></td> <td></td> <td>- 1</td> <td>41,676</td>	505					-4.1	6.5	-0.2				-0.3	1.0			- 1	41,676	
508         Machinery         16,598         16,675         16,408         -0.5         2.2         1.2         38,077         37,576         35,679         1.3         2.2         6.7         79,076           5U9         Under Durable         11,832         11,847         12,008         -0.1         -4.7         -1.5         15,135         15,464         15,814         -2.1         -1.2         -4.3         58,203           51         Nondurable         104,826         102,382         101,520         2.4         -1.1         3.3         91,183         94,458         93,073         -3.5         -2.0         -2.0         506,657           511         Paper         7,145         7,431         6,837         -3.8         0.9         4.5         8,951         8,907         8,284         0.5         0.2         8.1         36,516           512         Drugs         9,576         9,801         8,441         -2.3         4.1         13.4         13,327         13,804         11,781         -3.5         -2.4         13.1         47,183           513         Apparel         6,230         7,112         5,393         -12.4         -6.7         15.5         11,969         11,8	506	<b>∟</b> iectricai	14,477	14,208	14,123	1.9	-5.2	2.5	23,880	23,480	24,261	1.7	0.3	-1.6	70,	561	70,954	
5U9         Utner Durable         11,832         11,847         12,008         -0.1         -4.7         -1.5         15,135         15,464         15,814         -2.1         -1.2         -4.3         58,203           51         Nondurable         104,826         102,382         101,520         2.4         -1.1         3.3         91,183         94,458         93,073         -3.5         -2.0         -2.0         506,657           511         Paper         7,145         7,431         6,837         -3.8         0.9         4.5         8,951         8,907         8,284         0.5         0.2         8.1         36,516           512         Drugs         9,576         9,801         8,441         -2.3         4.1         13.4         13,327         13,804         11,781         -3.5         -2.4         13.1         47,183           513         Apparel         6,230         7,112         5,393         -12.4         -6.7         15.5         11,969         11,842         11,628         1.1         0.4         2.9         35,333           514         Groceries         28,692         26,975         27,274         6.4         -4.6         5.2         17,223         17,0		Hardw are	6,425	6,373	5,874	0.8	9.8	9.4	12,601	12,524	11,633	0.6	3.5	8.3	29,	446	27,104	
51         Nondurable         104,826         102,382         101,520         2.4         -1.1         3.3         91,183         94,458         93,073         -3.5         -2.0         -2.0         506,657           511         Paper         7,145         7,431         6,837         -3.8         0.9         4.5         8,951         8,907         8,284         0.5         0.2         8.1         36,516           512         Drugs         9,576         9,801         8,441         -2.3         4.1         13.4         13,327         13,804         11,781         -3.5         -2.4         13.1         47,183           513         Apparel         6,230         7,112         5,393         -12.4         -6.7         15.5         11,969         11,842         11,628         1.1         0.4         2.9         35,333           514         Groceries         28,692         26,975         27,274         6.4         -4.6         5.2         17,223         17,046         17,368         1.0         -1.7         -0.8         135,191           515         Harm-products         9,660         9,725         10,539         -0.7         1.6         -8.3         7,564         9,551 <td></td> <td>1</td> <td>16,598</td> <td>16,675</td> <td>16,408</td> <td>-0.5</td> <td>2.2</td> <td>1.2</td> <td>38,077</td> <td>37,576</td> <td>35,679</td> <td>1.3</td> <td>2.2</td> <td>6.7</td> <td>79,</td> <td>076</td> <td>79,328</td>		1	16,598	16,675	16,408	-0.5	2.2	1.2	38,077	37,576	35,679	1.3	2.2	6.7	79,	076	79,328	
511       Paper       7,145       7,431       6,837       -3.8       0.9       4.5       8,951       8,907       8,284       0.5       0.2       8.1       36,516         512       Drugs       9,576       9,801       8,441       -2.3       4.1       13.4       13,327       13,804       11,781       -3.5       -2.4       13.1       47,183         513       A pparel       6,230       7,112       5,393       -12.4       -6.7       15.5       11,969       11,842       11,628       1.1       0.4       2.9       35,333         514       Groceries       28,692       26,975       27,274       6.4       -4.6       5.2       17,223       17,046       17,368       1.0       -1.7       -0.8       135,191         515       Harm-products       9,660       9,725       10,539       -0.7       1.6       -8.3       7,564       9,551       11,174       -20.8       -8.9       -32.3       49,725         516       Unemicals       4,803       4,798       4,922       0.1       4.1       -2.4       4,651       4,735       4,562       -1.8       -2.0       2.0       22,947	509	Otner Durable	11,832	11,847	12,008	-0.1	-4.7	-1.5	15,135	15,464	15,814	-2.1	-1.2	-4.3	58,	203	55,268	
512         Drugs         9,576         9,801         8,441         -2.3         4.1         13.4         13,327         13,804         11,781         -3.5         -2.4         13.1         47,183           513         Apparei         6,230         7,112         5,393         -12.4         -6.7         15.5         11,969         11,842         11,628         1.1         0.4         2.9         35,333           514         Groceries         28,692         26,975         27,274         6.4         -4.6         5.2         17,223         17,046         17,368         1.0         -1.7         -0.8         135,191           515         Farm-products         9,660         9,725         10,539         -0.7         1.6         -8.3         7,564         9,551         11,174         -20.8         -8.9         -32.3         49,725           516         Unemicals         4,803         4,798         4,922         0.1         4.1         -2.4         4,651         4,735         4,562         -1.8         -2.0         2.0         22,947	51	Nondurable	104,826	102,382	101,520	2.4	-1.1	3.3	91,183	94,458	93,073	-3.5	-2.0	-2.0	506,	657	478,463	
513     Apparei     6,230     7,112     5,393     -12.4     -6.7     15.5     11,969     11,842     11,628     1.1     0.4     2.9     35,333       514     Groceries     28,692     26,975     27,274     6.4     -4.6     5.2     17,223     17,046     17,368     1.0     -1.7     -0.8     135,191       515     Farm-products     9,660     9,725     10,539     -0.7     1.6     -8.3     7,564     9,551     11,174     -20.8     -8.9     -32.3     49,725       516     Chemicals     4,803     4,798     4,922     0.1     4.1     -2.4     4,651     4,735     4,562     -1.8     -2.0     2.0     22,947		Paper			6,837			4.5	8,951	8,907	8,284	0.5		8.1	,	- 1	33,763	
514     Groceries     28,692     26,975     27,274     6.4     -4.6     5.2     17,223     17,046     17,368     1.0     -1.7     -0.8     135,191       515     Harm-products     9,660     9,725     10,539     -0.7     1.6     -8.3     7,564     9,551     11,174     -20.8     -8.9     -32.3     49,725       516     Unemicals     4,803     4,798     4,922     0.1     4.1     -2.4     4,651     4,735     4,562     -1.8     -2.0     2.0     22,947								1	,						,	- 1	41,627	
515     Farm-products     9,660     9,725     10,539     -0.7     1.6     -8.3     7,564     9,551     11,174     -20.8     -8.9     -32.3     49,725       516     Unemicals     4,803     4,798     4,922     0.1     4.1     -2.4     4,651     4,735     4,562     -1.8     -2.0     2.0     22,947		1 ''												l .	,	- 1	28,565	
516 Unemicals 4,803 4,798 4,922 0.1 4.1 -2.4 4,651 4,735 4,562 -1.8 -2.0 2.0 22,947					,			1				-			,	- 1	129,265	
																- 1	54,783 22,203	
											,			l .	,	- 1	71,184	
518 AICONOI   5,182   4,610   5,274   12.4   4.0   -1.7   4,590   4,903   4,822   -6.4   0.8   -4.8   21,779					,			- 1							,	- 1	22,096	
519 Utner Nongur. 18,511 17,383 17,517 6.5 3.8 5.7 17,640 18,617 18,521 -5.2 -2.0 -4.8 80,111								1								- 1	74,977	

p Preliminary estimate. r Revised.

<sup>1</sup> For a full description of the SIC Codes shown above see the "1987 Standard Industrial Classification Manual" or the Current Business Reports

<sup>&</sup>quot;Combined Annual and Revised Monthly Wholesale Trade" publication.

<sup>2</sup> Data adjusted for seasonal variations and, in the case of sales, also for trading-day differences. See Table 3 for seasonal adjustment factors used.

Table 2. Coefficients of Variation and Standard Error for Sales and Inventories

SIC c o d e	Kind of business	Prelin	(x	variation 100) Final es	Standard error for tren  Ratio of two consecutive months  Standard error for tren Year to Y			o Year	Coefficients of variation for level (x 100)  Cumulative sales estimates		Standard error for trend Current year cumulative		
		Sales	In v	Sales	In v	Sales	In v	Sales	In v			previous year	
		M edian	M edian	M edian	M edian	M edian	M edian	M edian	M edian	CY	PΥ	cumulative	
	U.S. Total	1.1	1.4	1.0	1.4	0.4	0.3	1.0	1.6	1.1	0.8	0.8	
50	Durable	2.0	2.3	2.0	2.3	0.7	0.3	1.7	2.3	2.1	1.2	1.5	
501	Autom otive	4.0	3.9	3.6	3.8	1.3	1.0	3.8	3.9	3.9	2.9	3.4	
502	Furniture	5.4	7.1	5.4	7.0	2.2	0.9	4.1	10.8	4.9	4.1	3.8	
503	Lumber	5.2	5.2	5.2	5.1	1.5	0.9	5.6	5.5	5.3	2.2	5.4	
504	Prof. equip.	5.7	7.2	5.8	7.3	1.4	0.9	5.8	5.5	5.6	3.1	4.6	
505	Metals	4.5	8.7	4.7	8.4	1.3	0.7	2.8	9.5	4.6	3.7	2.2	
506	Electrical	4.6	4.3	4.3	4.3	1.2	0.5	3.0	2.9	4.5	3.0	3.1	
507	Hardw are	4.8	4.1	4.9	4.0	1.6	0.5	6.4	4.4	4.4	2.6	5.6	
508	Machinery	5.1	4.4	5.5	4.5	1.8	0.6	4.6	5.2	5.5	2.3	5.0	
509	Other Durable	4.4	6.4	4.2	6.4	1.8	0.9	2.9	6.0	4.1	3.4	2.1	
5 1	Nondurable	1.8	1.9	1.7	1.8	0.6	0.4	1.5	1.2	1.7	1.3	1.3	
511	Paper	3.2	3.7	3.4	3.9	1.0	0.4	2.9	4.0	3.2	3.5	2.9	
512	Drugs	5.4	5.1	5.5	5.2	0.4	0.3	3.2	2.2	5.5	5.0	3.2	
513	Apparel	4.7	7.5	4.9	7.8	2.3	0.8	4.9	5.3	4.5	3.0	3.7	
514	Groceries	3.2	4.7	3.1	4.8	0.8	0.6	2.1	5.0	3.0	2.7	1.9	
515	Farm -products	5.0	6.6	4.9	6.7	2.3	1.4	3.0	3.5	4.6	3.6	2.1	
516	Chemicals	5.4	5.9	5.5	5.8	1.6	0.5	4.5	4.5	5.7	2.8	4.0	
517	Petroleum	5.2	13.9	5.0	13.7	1.0	1.0	3.1	13.3	5.3	4.2	3.1	
518	Alcohol	6.4	5.9	6.3	6.1	1.6	1.2	8.3	6.5	6.5	5.1	8.4	
519	Other Nondur.	5.8	5.7	5.8	5.7	2.6	1.4	7.2	5.4	5.4	1.9	6.5	

Note: The median measures of variability are based on the most recent 6 months of data.

## Sample Design and Reliability of Data

There are two types of errors possible in an estimate based on a sample survey: sampling and nonsampling.

Sampling errors occur because observations are made on a sample, not on the entire population, and different samples could have led to different estimates. Standard errors and coefficients of variation, as calculated for this report, are measures of sampling variation. The margin of sampling error, as used on page 1, gives a range about the estimate which is a 90% confidence interval. If, for example, the trend estimate is up 1.2% and the standard error is 0.9%, then the margin of sampling error is  $\pm 1.65 \times 0.9\%$  or  $\pm 1.5\%$ , and the 90% confidence interval is  $\pm 1.65 \times 0.9\%$  or  $\pm 1.5\%$ , and the 90% confidence interval is  $\pm 1.65 \times 0.9\%$  to  $\pm 1.5\%$ , and the 90% confidence interval is  $\pm 1.65 \times 0.9\%$  or  $\pm 1.5\%$ , and the 90% confidence interval is  $\pm 1.65 \times 0.9\%$  or  $\pm 1.5\%$ , and the 90% confidence interval is  $\pm 1.65 \times 0.9\%$  or  $\pm 1.$ 

Nonsampling errors are usually attributed to many possible sources: (1) coverage error - failure to accurately represent all population units in the sample,

(2) inability to obtain information about all sample cases, (3) response errors, possibly due to definitional difficulties or misreporting, (4) mistakes in recording or coding the data obtained, and (5) other errors of collection or processing, or in imputing for missing or inconsistent data. Coverage error has an effect on the accuracy of estimates for this survey to the extent that the administrative records system, which forms the basis of our survey universe frame, does not contain all legal businesses. A major source of nonsampling error in the published estimates is due to the need to impute data for nonrespondents and for late and inconsistent reports. For all kinds of businesses combined, imputed data amount to about 26 percent of the total monthly wholesale sales estimates and 28 percent of the total monthly wholesale inventories estimates.

Nonsampling errors also occur in complete censuses. Although no direct measures of these errors have been obtained, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data to minimize their influence.

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Table 3. Seasonal Adjustment Factors for Sales and Inventories of Merchant Wholesalers

SIC				Sa	les		Inventories							
code Kind of business				1997			1996	1996						
		Jun.	May	Apr.r	Mar.	Feb.	Mayr	Jun.	May	Apr.r	Mar.	Feb.	Mayr	
	U.S. Total¹	1.006	1.017	1.007	1.012	0.914	1.037	0.984	0.996	1.009	1.004	1.013	0.996	
50	Durable	1.014	1.001	1.002	1.023	0.905	1.024	0.997	1.007	1.009	0.999	1.003	1.007	
	Automotive	0.998	1.047	1.049	1.060	0.908	1.055	0.980	1.017	1.020	1.012	1.041	1.016	
502	Furniture	0.986	1.012	1.007	0.993	0.891	1.038	1.017	1.007	0.981	0.998	0.979	1.008	
503	Lumber	1.061	1.058	1.026	0.963	0.841	1.085	1.021	1.022	1.026	1.045	1.021	1.022	
	Prof. equip.	1.002	0.965	0.956	1.042	0.913	0.978	0.983	0.990	1.006	0.999	0.990	0.991	
	Metals	1.026	1.033	1.054	1.027	0.945	1.061	1.010	0.998	1.007	1.009	0.990	0.998	
	Electrical	0.998	0.968	0.963	1.016	0.912	0.990	1.009	1.005	0.994	0.976	0.998	1.005	
	Hardw are	1.061	0.996	0.989	0.932	0.861	1.020	0.996	1.020	1.010	1.010	0.996	1.020	
	Machinery	1.029	1.038	1.040	1.058	0.920	1.053	0.998	1.014	1.017	1.008	1.003	1.014	
509	Other Durable	1.005	0.951	0.937	0.985	0.886	0.981	0.999	1.006	0.991	0.961	0.968	1.006	
51	Nondurable	1.000	1.028	1.013	1.004	0.922	1.048	0.962	0.974	1.012	1.016	1.031	0.974	
511	Paper	0.988	0.971	0.992	0.990	0.936	1.002	0.984	0.991	1.017	1.004	1.002	0.989	
512	Drugs	0.969	0.966	1.019	0.980	0.919	1.007	0.961	0.950	1.000	0.997	1.017	0.949	
513	Apparel	0.993	0.837	0.945	1.047	0.990	0.869	1.016	0.968	0.963	0.970	1.012	0.968	
514	Groceries	0.996	1.039	0.985	1.007	0.901	1.051	0.990	0.984	0.985	0.981	0.969	0.985	
515	Farm-products	0.928	1.000	1.001	1.033	0.978	1.040	0.787	0.863	1.023	1.116	1.228	0.865	
	Chemicals	1.045	1.063	1.050	1.018	0.941	1.095	1.008	1.012	1.014	1.020	1.019	1.014	
	Petroleum	0.959	1.037	1.006	0.977	0.944	1.056	0.973	1.008	0.976	0.963	0.968	1.004	
	Alcohol	1.074	1.076	0.997	0.918	0.808	1.113	0.989	0.981	1.004	0.979	0.954	0.981	
519	Other Nondur.	1.088	1.131	1.101	1.038	0.894	1.148	0.975	1.023	1.072	1.052	1.052	1.021	

## r Revised

1 Adjusted sales and inventories data shown in table 1 are obtained by dividing the unadjusted data by the adjustment factors shown above for the corresponding group. Adjusted data for the totals are obtained by adding the durable and nondurable goods. Seasonal factors shown for the totals will provide an approximation of the adjusted estimates, but may show small differences from the published data.

